Notes for Marking Level F Worksheets

Marking is the process of clearly indicating correct pages, and incorrect or incomplete answers.

Place a **tick** (✓) on the question number of any incorrect, or unattempted question.

Place a **triangle** (△) on the question number for any question that has been attempted, but is incomplete.

F 1–180 (when reduction is the learning focus) Place a tick (✓) if students did not reduce fractions to the lowest possible term.	F 6a (✓) $\frac{12}{18} = \frac{6}{9}$
F 11–180 When the learning focus is not reduction, place a triangle (△) if students did not reduce fractions to the lowest possible term.	F 34b (△) $\frac{1}{2} + \frac{1}{3} + \frac{1}{10}$ $= \frac{15}{30} + \frac{10}{30} + \frac{3}{30}$ $= \frac{28}{30}$
F 11–20, 31–180 Students should use the Least Common Multiple (LCM) for addition and subtraction. Place a triangle (△) if students did not use the LCM.	F 36b (△) $\frac{1}{3} + \frac{1}{4} + \frac{1}{8}$ $= \frac{16}{48} + \frac{12}{48} + \frac{6}{48}$ $= \frac{34}{48}$ $= \frac{17}{24}$
F 11–30, 61–180 Fractions should be reduced in the intermediate step for multiplication and division. Place a triangle (△) if students did not reduce the fractions in the intermediate step.	F 73b (△) $\frac{1}{8} \times 6 + 2$ $= \frac{6}{8} + 2$ $= 2\frac{6}{8}$ $= 2\frac{3}{4}$

F1−5 (3−5 min)

1		2		3	
(1)	408	(1)	4 R 2	(1)	222 R 3
(2)	782	(2)	4 R 8	(2)	25 R 10
(3)	1156	(3)	4 R 21		
(4)	1530	(4)	5 R 15		
(5)	4794	(5)	2 R 20	(3)	60
(6)	5828	(6)	3 R 2	(4)	54 R 35
(7)	6862	(7)	4 R 17		
(8)	7896	(8)	5 R 40		

1		2		3	
(9)	2183	(9)	3 R 20	(5)	51 R 11
(10)	2832	(10)	4 R 63	(6)	64 R 20
(11)	3481	(11)	5 R 55		
(12)	3540	(12)	9 R 3		
(13)	19375	(13)	4	(7)	22 R 10
(14)	26250	(14)	7 R 5	(8)	21
(15)	33125	(15)	3 R 38		
(16)	40000	(16)	8 R 12		

4

1.

(1) $2\frac{\boxed{1}}{4}$

(2) $3\frac{2}{5}$

(3) $4\frac{1}{6}$

(4) $\boxed{4}$

(5) $5\frac{3}{8}$

(6) $6\frac{5}{9}$

(7) 3

(8) $3\frac{1}{12}$

(9) $2\frac{13}{15}$

(10) 4

(11) $2\frac{2}{19}$

(12) $8\frac{17}{30}$

5

(1) $7\frac{1}{2}$

(2) $6\frac{2}{3}$

(3) $8\frac{1}{2}$

(4) $9\frac{1}{2}$

(5) $10\frac{1}{3}$

(6) $18\frac{2}{5}$

4

2.

(1) $1\frac{3}{4}$

(2) $2\frac{1}{6}$

(3) $3\frac{4}{7}$

(4) $3\frac{2}{9}$

(5) $5\frac{1}{10}$

(6) $5\frac{5}{21}$

3.

(1) $\frac{7}{5}$

(2) $\frac{18}{7}$

(3) $\frac{27}{8}$

(4) $\frac{47}{10}$

(5) $\frac{41}{12}$

(6) $\frac{107}{20}$

5

(7) $15\frac{1}{2}$

(8) $12\frac{1}{3}$

(9) $11\frac{1}{2}$

(10) $8\frac{1}{3}$

(11) $7\frac{7}{8}$

(12) $15\frac{1}{4}$

F6–10 (3–5 min)

6

(1)	$\frac{2}{5}$	(8)	$\frac{5}{7}$
(2)	$\frac{1}{2}$	(9)	$\frac{2}{3}$
(3)	$\frac{2}{3}$	(10)	$\frac{2}{3}$
(4)	$\frac{1}{2}$	(11)	$\frac{14}{15}$
(5)	$\frac{3}{4}$	(12)	$\frac{1}{4}$
(6)	$\frac{2}{3}$	(13)	$\frac{3}{5}$
(7)	$\frac{3}{4}$	(14)	$\frac{2}{5}$

7

(1)	$\frac{1}{2}$	(8)	$\frac{1}{10}$
(2)	$\frac{1}{3}$	(9)	$\frac{1}{3}$
(3)	$\frac{2}{3}$	(10)	$\frac{3}{4}$
(4)	$\frac{1}{4}$	(11)	$\frac{3}{4}$
(5)	$\frac{3}{5}$	(12)	$\frac{1}{2}$
(6)	$\frac{3}{7}$	(13)	$\frac{1}{3}$
(7)	$\frac{1}{6}$	(14)	$\frac{1}{5}$

8

(1)	$\frac{1}{2}$	(8)	$\frac{19}{20}$
(2)	$\frac{3}{5}$	(9)	$\frac{5}{7}$
(3)	$\frac{4}{5}$	(10)	$\frac{1}{4}$
(4)	$\frac{7}{9}$	(11)	$\frac{3}{4}$
(5)	$\frac{3}{5}$	(12)	$\frac{3}{4}$
(6)	$\frac{1}{3}$	(13)	$\frac{1}{7}$
(7)	$\frac{2}{3}$	(14)	$\frac{5}{7}$

6

(15)	$\frac{1}{2}$	(22)	$\frac{1}{2}$
(16)	$\frac{1}{3}$	(23)	$\frac{3}{5}$
(17)	$\frac{2}{3}$	(24)	$\frac{3}{5}$
(18)	$\frac{1}{4}$	(25)	$\frac{5}{9}$
(19)	$\frac{1}{3}$	(26)	$\frac{1}{5}$
(20)	$\frac{5}{6}$	(27)	$\frac{3}{5}$
(21)	$\frac{3}{4}$	(28)	$\frac{1}{3}$

7

(15)	$\frac{1}{2}$	(22)	$\frac{2}{5}$
(16)	$\frac{1}{3}$	(23)	$\frac{1}{2}$
(17)	$\frac{2}{3}$	(24)	$\frac{3}{4}$
(18)	$\frac{1}{4}$	(25)	$\frac{1}{5}$
(19)	$\frac{2}{5}$	(26)	$\frac{3}{4}$
(20)	$\frac{1}{4}$	(27)	$\frac{3}{4}$
(21)	$\frac{6}{7}$	(28)	$\frac{2}{5}$

8

(15)	$\frac{9}{19}$	(22)	$\frac{5}{7}$
(16)	$\frac{2}{3}$	(23)	$\frac{11}{20}$
(17)	$\frac{1}{3}$	(24)	$\frac{1}{5}$
(18)	$\frac{2}{3}$	(25)	$\frac{4}{5}$
(19)	$\frac{7}{8}$	(26)	$\frac{4}{7}$
(20)	$\frac{1}{4}$	(27)	$\frac{1}{5}$
(21)	$\frac{3}{4}$	(28)	$\frac{4}{5}$

9

(1) $\frac{4}{15}$　(2) $\frac{5}{16}$　(3) $\frac{2}{3}$　(4) $\frac{2}{3}$　(5) $\frac{4}{11}$　(6) $\frac{1}{2}$　(7) $\frac{2}{3}$

(8) $\frac{1}{2}$　(9) $\frac{1}{3}$　(10) $\frac{3}{4}$　(11) $\frac{2}{5}$　(12) $\frac{3}{4}$　(13) $\frac{5}{6}$　(14) $\frac{3}{5}$

10

(1) $\frac{2}{3}$　(2) $\frac{2}{5}$　(3) $\frac{4}{7}$　(4) $\frac{1}{2}$　(5) $\frac{4}{5}$　(6) $\frac{1}{2}$　(7) $\frac{2}{7}$

(8) $\frac{3}{8}$　(9) $\frac{4}{5}$　(10) $\frac{3}{4}$　(11) $\frac{2}{3}$　(12) $\frac{1}{2}$　(13) $\frac{1}{3}$　(14) $\frac{1}{5}$

9

(15) $\frac{2}{3}$　(16) $\frac{3}{4}$　(17) $\frac{1}{2}$　(18) $\frac{1}{4}$　(19) $\frac{1}{3}$　(20) $\frac{12}{35}$　(21) $\frac{1}{4}$

(22) $\frac{1}{2}$　(23) $\frac{3}{5}$　(24) $\frac{2}{3}$　(25) $\frac{1}{3}$　(26) $\frac{2}{3}$　(27) $\frac{2}{5}$　(28) $\frac{1}{3}$

10

(15) $\frac{1}{3}$　(16) $\frac{3}{4}$　(17) $\frac{2}{3}$　(18) $\frac{1}{5}$　(19) $\frac{2}{3}$　(20) $\frac{1}{2}$　(21) $\frac{2}{3}$

(22) $\frac{3}{5}$　(23) $\frac{1}{3}$　(24) $\frac{2}{11}$　(25) $\frac{2}{5}$　(26) $\frac{3}{7}$　(27) $\frac{1}{4}$　(28) $\frac{1}{3}$

F11–20 (3–5 min)

11	12	13	14	15
(1) $1\frac{1}{7}$	(1) $1\frac{\boxed{1}}{5}$	(1) $\frac{1}{12}$	1. (1) $2\frac{7}{11}$	(1) $\frac{\boxed{1}}{12}$
(2) $6\frac{2}{9}$	(2) $1\frac{1}{7}$	(2) $\frac{1}{9}$	(2) $1\frac{7}{13}$	(2) $\frac{1}{20}$
(3) $1\frac{5}{8}$	(3) $1\frac{2}{7}$	(3) $\frac{11}{24}$	(3) $\frac{31}{60}$	(3) $\frac{1}{12}$
(4) $1\frac{2}{15}$	(4) $2\frac{2}{7}$	(4) $\frac{7}{24}$	(4) $2\frac{8}{15}$	(4) $\frac{2}{15}$
(5) $\frac{43}{56}$	(5) $3\frac{1}{9}$	(5) $\frac{1}{4}$	(5) $1\frac{13}{24}$	(5) $\frac{4}{21}$
(6) $1\frac{7}{24}$	(6) $4\frac{3}{7}$	(6) $\frac{1}{2}$	(6) $5\frac{29}{36}$	(6) $\frac{1}{4}$
(7) $\frac{11}{30}$	(7) $6\frac{4}{9}$	(7) $1\frac{1}{2}$	(7) $6\frac{11}{60}$	(7) $\frac{1}{3}$
11	**12**	**13**	**14**	**15**
(8) $1\frac{11}{28}$	(8) $\frac{\boxed{7}}{12}$	(8) $\frac{5}{7}$	2. (1) $\frac{\boxed{4}}{5}$	(8) $\frac{\boxed{4}}{7}$
(9) $\frac{1}{6}$	(9) $\frac{9}{20}$	(9) $\frac{7}{9}$	(2) $\frac{3}{5}$	(9) $\frac{7}{8}$
(10) $2\frac{1}{3}$	(10) $\frac{5}{12}$	(10) $1\frac{8}{15}$	(3) $\frac{6}{7}$	(10) $1\frac{\boxed{4}}{5}$
(11) $4\frac{5}{12}$	(11) $\frac{8}{15}$	(11) $1\frac{7}{48}$	(4) $\frac{4}{7}$	(11) $2\frac{5}{7}$
(12) $10\frac{1}{16}$	(12) $\frac{10}{21}$	(12) $3\frac{3}{5}$	(5) $\frac{3}{7}$	(12) $3\frac{2}{9}$
(13) $7\frac{33}{40}$	(13) $\frac{3}{4}$	(13) $4\frac{3}{4}$	(6) $2\frac{\boxed{5}}{7}$	(13) $2\frac{\boxed{5}}{7}$
(14) $6\frac{19}{24}$	(14) $\frac{1}{2}$	(14) $2\frac{13}{15}$	(7) $\frac{4}{7}$	(14) $3\frac{1}{8}$

16	17	18	19	20
(1) $\frac{7}{12}$	1. (1) 2	(1) $2\frac{1}{2}$	(1) $\frac{19}{80}$	(1) $1\frac{1}{48}$
(2) $\frac{2}{3}$	(2) $1\frac{2}{5}$	(2) $1\frac{29}{80}$	(2) $5\frac{21}{40}$	(2) $6\frac{9}{20}$
(3) $1\frac{1}{2}$	(3) $\frac{2}{5}$	(3) $3\frac{4}{7}$	(3) $8\frac{1}{4}$	(3) $1\frac{11}{28}$
(4) $\frac{11}{15}$	(4) $2\frac{1}{3}$	(4) $6\frac{7}{10}$	(4) $2\frac{8}{45}$	(4) $\frac{23}{54}$
(5) 2	(5) $1\frac{1}{14}$	(5) $\frac{3}{7}$	(5) $\frac{29}{36}$	(5) $8\frac{6}{11}$
(6) 1	(6) 18	(6) $2\frac{3}{5}$	(6) $1\frac{7}{12}$	(6) $10\frac{1}{3}$
(7) 1	(7) $2\frac{1}{5}$	(7) $2\frac{4}{9}$	(7) $1\frac{2}{9}$	(7) $\frac{3}{4}$
16	**17**	**18**	**19**	**20**
(8) 2	2. (1) $\frac{10}{21}$	(8) $\frac{1}{72}$	(8) 12	(8) $16\frac{7}{54}$
(9) $1\frac{1}{8}$	(2) $\frac{7}{11}$	(9) 2	(9) $4\frac{1}{2}$	(9) $1\frac{71}{75}$
(10) 5	(3) $\frac{9}{25}$	(10) 10	(10) $1\frac{3}{8}$	(10) $3\frac{2}{11}$
(11) $10\frac{1}{2}$	(4) $1\frac{1}{5}$	(11) 28	(11) $\frac{1}{3}$	(11) $6\frac{3}{4}$
(12) $3\frac{1}{3}$	(5) $\frac{2}{3}$	(12) $1\frac{1}{2}$	(12) $\frac{15}{22}$	(12) $1\frac{1}{3}$
(13) 15	(6) $\frac{9}{14}$	(13) $\frac{3}{4}$	(13) $1\frac{7}{15}$	(13) $\frac{4}{5}$
(14) $9\frac{1}{3}$	(7) $2\frac{4}{5}$	(14) $3\frac{2}{5}$	(14) $\frac{5}{8}$	(14) $\frac{7}{60}$

F21–30 (4–6 min)

21	22	23	24	25
(1) $\frac{1}{10}$	(1) $\frac{7}{15}$	(1) $\frac{2}{5}$	(1) 1	(1) $\frac{1}{14}$
(2) $\frac{2}{15}$	(2) $\frac{2}{9}$	(2) $2\frac{1}{2}$	(2) $1\frac{2}{3}$	(2) $\frac{1}{28}$
(3) $\frac{1}{24}$	(3) $\frac{2}{5}$	(3) 7	(3) 1	(3) $\frac{4}{9}$
	(4) $1\frac{1}{3}$	(4) 21	(4) 14	(4) $\frac{1}{3}$
(4) $\frac{1}{6}$	(5) $1\frac{2}{7}$	(5) 5	(5) $1\frac{1}{9}$	(5) $1\frac{1}{8}$
(5) $\frac{1}{12}$	(6) $1\frac{1}{2}$	(6) $5\frac{1}{2}$	(6) 2	(6) $\frac{2}{7}$

21	22	23	24	25
(6) $\frac{1}{45}$	(7) $\frac{1}{6}$	(7) 8	(7) $\frac{5}{14}$	(7) $\frac{1}{10}$
(7) $\frac{1}{40}$	(8) $1\frac{1}{5}$	(8) $1\frac{1}{6}$	(8) $\frac{5}{14}$	(8) $\frac{1}{10}$
(8) $\frac{1}{11}$	(9) $2\frac{2}{3}$	(9) $7\frac{1}{2}$	(9) 4	(9) $\frac{1}{10}$
	(10) 3	(10) 24	(10) 4	(10) $\frac{8}{17}$
(9) $\frac{1}{13}$	(11) $\frac{5}{6}$	(11) 14	(11) $4\frac{4}{5}$	(11) $1\frac{1}{12}$
(10) $\frac{1}{8}$	(12) 15	(12) $3\frac{1}{2}$	(12) $4\frac{4}{5}$	(12) 14

26	27	28	29	30
(1) $\frac{5}{6}$	(1) $1\frac{5}{7}$	(1) $1\frac{1}{4}$	(1) $2\frac{4}{5}$	(1) $\frac{1}{4}$
(2) 3	(2) $\frac{2}{21}$	(2) $3\frac{2}{5}$	(2) $\frac{1}{2}$	(2) $\frac{5}{21}$
(3) 3	(3) $\frac{1}{14}$	(3) $\frac{2}{3}$	(3) $2\frac{8}{21}$	(3) $\frac{3}{5}$
(4) $2\frac{2}{3}$	(4) 9	(4) 9	(4) 2	(4) $\frac{1}{4}$
(5) 3	(5) 1	(5) $1\frac{1}{2}$	(5) $1\frac{1}{3}$	(5) $\frac{1}{14}$
26	**27**	**28**	**29**	**30**
(6) $1\frac{2}{5}$	(6) $2\frac{1}{2}$	(6) $\frac{2}{3}$	(6) $2\frac{1}{3}$	(6) $3\frac{1}{3}$
(7) $\frac{7}{50}$	(7) $2\frac{1}{4}$	(7) $1\frac{1}{2}$	(7) 27	(7) $6\frac{1}{2}$
(8) $1\frac{2}{3}$	(8) $\frac{2}{21}$	(8) $5\frac{5}{9}$	(8) $\frac{1}{4}$	(8) $\frac{7}{9}$
(9) 1	(9) $6\frac{2}{3}$	(9) 36	(9) $\frac{1}{60}$	(9) 8
(10) $3\frac{2}{3}$	(10) 5	(10) $\frac{3}{16}$	(10) $\frac{5}{24}$	(10) $1\frac{11}{14}$
(11) $\frac{2}{11}$	(11) $1\frac{3}{7}$	(11) $\frac{11}{32}$	(11) $\frac{5}{24}$	(11) $1\frac{1}{2}$

F31–40 (3–5 min)

31

(1) $\frac{19}{24}$

(2) $1\frac{1}{24}$

(3) $1\frac{1}{12}$

(4) $1\frac{7}{12}$

(5) $1\frac{5}{12}$

(6) $\frac{17}{18}$

(7) $1\frac{1}{18}$

(8) $1\frac{7}{18}$

(9) $\frac{19}{20}$

(10) $1\frac{3}{20}$

(11) $1\frac{17}{20}$

32

1.
(1) 12

(2) 24

(3) 28

(4) 24

(5) 40

2.
(1) 36 (18)

(2) 36 (36)

3.
(1) 18

(2) 30

(3) 36

(4) 56

(5) 20

33

(1) 42

(2) 30

(3) 8

(4) 36

(5) 42

(6) 18

(7) 12

(8) 18

(9) 40

(10) 60

(11) 6

(12) 24

(13) 70

(14) 18

(15) 30

(16) 42

(17) 60

34

1.
(1) 24

(2) 30

(3) 12

(4) 20

(5) 12

(6) 20

(7) 90

(8) 10

(9) 24

(10) 66

2.
(1) $\frac{23}{24}$

(2) $\frac{14}{15}$

(3) $\frac{11}{12}$

(4) $\frac{11}{12}$

(5) $\frac{17}{20}$

(6) $\frac{4}{5}$

35

1.
(1) 60

(2) 60

(3) 45

(4) 15

(5) 18

(6) 30

(7) 63

(8) 84

(9) 12

(10) 90

2.
(1) $\frac{13}{15}$

(2) $\frac{33}{40}$

(3) $\frac{47}{60}$

(4) $\frac{19}{24}$

(5) $\frac{7}{9}$

(6) $\frac{23}{30}$

36

1.
(1) 40
(2) 56
(3) 36
(4) 27
(5) 30
(6) 24
(7) 20
(8) 28
(9) 24
(10) 36

37

1.
(1) 24
(2) 24
(3) 120
(4) 24
(5) 14
(6) 70
(7) 42
(8) 48
(9) 16
(10) 48

38

1.
(1) 18
(2) 36
(3) 90
(4) 18
(5) 26
(6) 56
(7) 63
(8) 54
(9) 90
(10) 72

39

(1) $\frac{11}{24}$
(2) $\frac{7}{16}$
(3) $\frac{17}{40}$
(4) $\frac{43}{90}$
(5) $\frac{7}{15}$
(6) $\frac{17}{48}$

40

(1) $\frac{17}{24}$
(2) $\frac{23}{45}$
(3) $\frac{17}{50}$
(4) $\frac{7}{12}$
(5) $\frac{5}{14}$
(6) $\frac{41}{52}$

36

2.
(1) $\frac{3}{4}$
(2) $\frac{17}{24}$
(3) $\frac{2}{3}$
(4) $\frac{29}{45}$
(5) $\frac{19}{30}$
(6) $\frac{3}{5}$

37

2.
(1) $\frac{5}{8}$
(2) $\frac{3}{5}$
(3) $\frac{23}{42}$
(4) $\frac{13}{24}$
(5) $\frac{25}{48}$
(6) $\frac{1}{2}$

38

2.
(1) $\frac{37}{60}$
(2) $\frac{23}{40}$
(3) $\frac{11}{20}$
(4) $\frac{31}{60}$
(5) $\frac{11}{24}$
(6) $\frac{13}{28}$

39

(7) $\frac{23}{28}$
(8) $\frac{11}{16}$
(9) $\frac{2}{3}$
(10) $\frac{1}{3}$
(11) $\frac{19}{63}$
(12) $\frac{31}{80}$

40

(7) $\frac{19}{40}$
(8) $\frac{13}{30}$
(9) $\frac{13}{36}$
(10) $\frac{19}{56}$
(11) $\frac{5}{18}$
(12) $\frac{11}{45}$

F41–50 (4–6 min)

41	42	43	44	45
(1) $1\frac{1}{12}$	(1) $\frac{23}{30}$	(1) $1\frac{5}{12}$	(1) $1\frac{1}{18}$	(1) $1\frac{1}{4}$
(2) $\frac{23}{24}$	(2) $\frac{29}{40}$	(2) $1\frac{2}{3}$	(2) $1\frac{11}{36}$	(2) $1\frac{1}{3}$
(3) 1	(3) $\frac{25}{36}$	(3) $1\frac{5}{12}$	(3) $1\frac{4}{9}$	(3) $\frac{59}{60}$
(4) $\frac{14}{15}$	(4) $\frac{61}{90}$	(4) $1\frac{4}{15}$	(4) $1\frac{4}{45}$	(4) 1
(5) $\frac{7}{8}$	(5) $\frac{2}{3}$	(5) $1\frac{1}{3}$	(5) $1\frac{13}{36}$	(5) $1\frac{3}{20}$

41	42	43	44	45
(6) $\frac{3}{4}$	(6) $\frac{13}{20}$	(6) $1\frac{1}{18}$	(6) $1\frac{2}{15}$	(6) $1\frac{5}{21}$
(7) $\frac{17}{24}$	(7) $\frac{3}{5}$	(7) $1\frac{1}{8}$	(7) $1\frac{7}{20}$	(7) $1\frac{13}{84}$
(8) $\frac{41}{60}$	(8) $\frac{37}{60}$	(8) $1\frac{1}{24}$	(8) $1\frac{11}{30}$	(8) $\frac{2}{3}$
(9) $\frac{7}{10}$	(9) $\frac{23}{40}$	(9) $1\frac{1}{40}$	(9) $1\frac{29}{60}$	(9) $1\frac{8}{15}$
(10) $\frac{29}{45}$	(10) $\frac{11}{20}$	(10) $1\frac{1}{8}$	(10) $1\frac{1}{6}$	(10) $1\frac{4}{15}$
(11) $\frac{5}{8}$	(11) $\frac{1}{2}$	(11) $1\frac{1}{40}$	(11) $1\frac{7}{15}$	(11) $1\frac{1}{20}$

46	47	48	49	50
(1) $1\frac{7}{12}$	(1) $4\frac{1}{12}$	(1) $4\frac{5}{12}$	(1) $3\frac{11}{12}$	(1) $7\frac{1}{15}$
(2) $1\frac{13}{24}$	(2) $4\frac{5}{12}$	(2) $6\frac{1}{6}$	(2) $5\frac{2}{3}$	(2) $6\frac{4}{15}$
(3) $1\frac{19}{36}$	(3) $2\frac{7}{24}$	(3) $5\frac{1}{40}$	(3) $5\frac{47}{60}$	(3) $7\frac{11}{24}$
(4) $1\frac{17}{72}$	(4) $5\frac{1}{24}$	(4) $8\frac{1}{84}$	(4) $7\frac{20}{21}$	(4) $6\frac{1}{2}$

46	47	48	49	50
(5) 2	(5) $7\frac{11}{18}$	(5) $8\frac{11}{12}$	(5) $8\frac{1}{8}$	(5) 9
(6) $\frac{23}{24}$	(6) $3\frac{3}{20}$	(6) $8\frac{11}{15}$	(6) $5\frac{51}{56}$	(6) $7\frac{7}{8}$
(7) $1\frac{14}{15}$	(7) $3\frac{7}{8}$	(7) $8\frac{83}{90}$	(7) $8\frac{11}{15}$	(7) $7\frac{2}{21}$
(8) $2\frac{1}{8}$	(8) $5\frac{5}{9}$	(8) $5\frac{21}{44}$	(8) $9\frac{5}{24}$	(8) $7\frac{29}{48}$
(9) $1\frac{14}{45}$	(9) $10\frac{13}{72}$	(9) $8\frac{3}{4}$	(9) $7\frac{7}{60}$	(9) $9\frac{4}{45}$

F51–60 (4–6 min)

51	52	53	54	55
(1) $\frac{\boxed{7}}{12}$	(1) $\frac{13}{60}$	(1) $\frac{17}{24}$	(1) $1\frac{\boxed{5}}{12}$	(1) $1\frac{11}{12}$
(2) $\frac{5}{12}$	(2) $\frac{7}{10}$	(2) $\frac{19}{40}$	(2) $3\frac{37}{72}$	(2) $2\frac{11}{12}$
(3) $\frac{23}{60}$	(3) $\frac{23}{28}$	(3) $\frac{1}{2}$	(3) $1\frac{23}{45}$	(3) $3\frac{3}{5}$
(4) $\frac{13}{42}$	(4) $\frac{11}{24}$	(4) $\frac{7}{8}$	(4) $3\frac{3}{5}$	(4) $4\frac{11}{18}$
(5) $\frac{17}{30}$	(5) $\frac{31}{42}$	(5) $\frac{59}{72}$	(5) $1\frac{17}{36}$	(5) $5\frac{4}{5}$

51	52	53	54	55
(6) $\frac{1}{4}$	(6) $\frac{1}{24}$	(6) $\frac{5}{18}$	(6) $\frac{4}{9}$	(6) $3\frac{5}{6}$
(7) $\frac{11}{60}$	(7) $\frac{7}{24}$	(7) $\frac{17}{36}$	(7) $\frac{23}{90}$	(7) $3\frac{1}{4}$
(8) $\frac{2}{3}$	(8) $\frac{9}{40}$	(8) $\frac{23}{36}$	(8) 0	(8) $1\frac{2}{5}$
(9) 0	(9) $\frac{11}{24}$	(9) $\frac{13}{72}$	(9) $2\frac{1}{4}$	(9) $2\frac{4}{5}$
(10) $\frac{29}{42}$	(10) $\frac{13}{56}$	(10) 0	(10) $3\frac{22}{63}$	(10) $1\frac{4}{15}$

＊60a（2）Problem with borrowing 2 or borrowing twice

56	57	58	59	60
(1) $1\frac{2}{3}$	(1) $1\frac{1}{5}$	1. (1) $9\frac{3}{7}$	(1) $3\frac{7}{24}$	(1) $\frac{2}{15}$
(2) $1\frac{5}{18}$	(2) $2\frac{3}{4}$	(2) $9\frac{3}{7}$	(2) $1\frac{1}{3}$	(2)* $1\frac{4}{5}$
		(3) $3\frac{3}{7}$		
(3) $2\frac{1}{3}$	(3) $1\frac{11}{15}$	(4) $3\frac{3}{7}$	(3) $1\frac{5}{6}$	(3) $1\frac{3}{4}$
(4) $1\frac{11}{18}$	(4) $2\frac{1}{8}$	(5) $1\frac{2}{7}$	(4) $1\frac{1}{15}$	(4) $6\frac{1}{3}$
		(6) $1\frac{2}{7}$		
		2. 2, 4, 6		
56	**57**	**58**	**59**	**60**
(5) $1\frac{7}{20}$	(5) $1\frac{5}{6}$	3. (1) $1\frac{3}{8}$	(5) $4\frac{5}{6}$	(5) $1\frac{1}{12}$
(6) $1\frac{1}{6}$	(6) 3	(2) $1\frac{3}{8}$	(6) $5\frac{3}{4}$	(6) $1\frac{17}{60}$
(7) $2\frac{2}{3}$	(7) $4\frac{5}{12}$	(3) $1\frac{7}{12}$	(7) $\frac{1}{2}$	(7) $1\frac{9}{20}$
(8) $\frac{2}{3}$	(8) $10\frac{2}{7}$	(4) $5\frac{7}{30}$	(8) $2\frac{1}{10}$	

F61–70 (3–5 min)

61	62	63	64	65
(1) 2	(1) $\frac{1}{2}$	(1) 14	(1) $\frac{3}{7}$	(1) $\frac{1}{2}$
(2) 18	(2) $\frac{1}{2}$	(2) $\frac{1}{5}$	(2) $1\frac{1}{6}$	(2) $\frac{3}{14}$
(3) 8	(3) $\frac{1}{6}$	(3) 13	(3) $2\frac{1}{2}$	(3) $\frac{3}{4}$
(4) 0				
(5) 4	(4) $\frac{2}{9}$	(4) $\frac{2}{3}$	(4) $\frac{3}{10}$	(4) $\frac{1}{5}$
(6) 15	(5) 14	(5) $\frac{1}{5}$	(5) $\frac{5}{24}$	(5) $\frac{1}{4}$
(7) 6				
(8) 2				

61	62	63	64	65
(9) $\frac{1}{7}$	(6) $\frac{1}{6}$	(6) $\frac{6}{7}$	(6) $\frac{1}{10}$	(6) $\frac{2}{5}$
(10) $\frac{1}{4}$	(7) $\frac{2}{3}$	(7) $\frac{1}{6}$	(7) $\frac{1}{6}$	(7) $\frac{2}{3}$
(11) $\frac{1}{3}$	(8) $\frac{1}{4}$	(8) $\frac{6}{7}$	(8) $\frac{7}{9}$	(8) 4
(12) $\frac{5}{6}$	(9) $\frac{1}{12}$	(9) $\frac{1}{6}$	(9) $\frac{1}{8}$	(9) $\frac{1}{5}$
(13) $\frac{2}{5}$	(10) $2\frac{2}{3}$	(10) $\frac{1}{2}$	(10) $\frac{2}{5}$	(10) $\frac{2}{5}$
(14) $\frac{1}{6}$				

66	67	68	69	70
(1) $\frac{3}{4}$	(1) $\frac{1}{3}$	(1) $1\frac{7}{16}$	(1) $1\frac{7}{12}$	(1) 16
(2) $\frac{4}{5}$	(2) $\frac{1}{18}$	(2) $\frac{2}{5}$	(2) $\frac{1}{4}$	(2) $\frac{8}{15}$
(3) $\frac{1}{8}$	(3) 1	(3) $6\frac{1}{2}$	(3) $7\frac{1}{5}$	(3) $\frac{1}{7}$
(4) $\frac{11}{24}$	(4) $2\frac{2}{3}$	(4) $\frac{1}{8}$	(4) $\frac{5}{6}$	

66	67	68	69	70
(5) $\frac{2}{27}$	(5) $\frac{1}{4}$	(5) $\frac{9}{10}$	(5) $\frac{9}{20}$	(4) $8\frac{3}{4}$
(6) 2	(6) 40	(6) $\frac{7}{8}$	(6) $\frac{3}{4}$	(5) $3\frac{2}{15}$
(7) $\frac{1}{3}$	(7) $\frac{1}{9}$	(7) $\frac{3}{8}$	(7) $1\frac{2}{5}$	(6) $1\frac{1}{2}$
(8) $\frac{5}{9}$	(8) 11	(8) $\frac{3}{5}$	(8) $\frac{2}{5}$	

F71–80 (3–5 min)

71		72		73		74		75	
(1)	14	(1)	6	(1)	$1\frac{1}{3}$	(1)	$11\frac{4}{5}$	(1)	$3\frac{2}{3}$
(2)	11	(2)	4	(2)	$6\frac{1}{3}$	(2)	$1\frac{2}{5}$	(2)	$\frac{1}{5}$
(3)	2	(3)	6	(3)	$7\frac{7}{10}$	(3)	8	(3)	$9\frac{1}{2}$
(4)	7	(4)	24	(4)	$\frac{1}{2}$	(4)	$6\frac{4}{7}$	(4)	$\frac{1}{3}$
(5)	6	(5)	5	(5)	$\frac{2}{3}$	(5)	$3\frac{1}{3}$	(5)	$2\frac{1}{2}$
(6)	1	(6)	7	(6)	$1\frac{2}{3}$	(6)	$1\frac{1}{3}$		

71		72		73		74		75	
(7)	17	(7)	$5\frac{2}{3}$	(7)	$3\frac{2}{3}$	(7)	$2\frac{6}{7}$	(6)	$\frac{1}{3}$
(8)	22	(8)	$7\frac{6}{7}$	(8)	$2\frac{3}{4}$	(8)	$3\frac{2}{3}$	(7)	$7\frac{1}{2}$
(9)	11	(9)	$2\frac{3}{5}$	(9)	$8\frac{2}{9}$	(9)	$4\frac{1}{2}$	(8)	$3\frac{1}{5}$
(10)	13								
(11)	12	(10)	$1\frac{3}{5}$	(10)	$2\frac{1}{5}$	(10)	$\frac{3}{5}$	(9)	$\frac{1}{7}$
(12)	2	(11)	$7\frac{4}{5}$	(11)	$6\frac{1}{3}$	(11)	$1\frac{1}{2}$	(10)	6
(13)	1	(12)	$\frac{3}{4}$	(12)	$5\frac{1}{2}$	(12)	$2\frac{1}{2}$		
(14)	23								

76	77	78	79	80
(1) $\frac{3}{4}$	(1) $\frac{1}{2}$	(1) 1	(1) $1\frac{1}{2}$	(1) $\frac{7}{8}$
(2) $\frac{1}{3}$	(2) $1\frac{2}{15}$	(2) $6\frac{7}{24}$	(2) $2\frac{1}{3}$	(2) $\frac{5}{18}$
(3) $\frac{7}{10}$	(3) $1\frac{1}{6}$	(3) $\frac{1}{6}$	(3) $\frac{1}{2}$	
(4) $2\frac{3}{5}$	(4) $\frac{1}{6}$	(4) $1\frac{1}{8}$	(4) $1\frac{1}{3}$	(3) $1\frac{1}{2}$
(5) $4\frac{3}{4}$	(5) $2\frac{1}{2}$	(5) $\frac{1}{12}$	(5) $\frac{1}{2}$	(4) $1\frac{7}{24}$

76	77	78	79	80
(6) $\frac{1}{4}$	(6) $\frac{1}{8}$	(6) $1\frac{1}{12}$	(6) $3\frac{3}{4}$	(5) $1\frac{1}{14}$
(7) $1\frac{1}{6}$	(7) $1\frac{1}{2}$	(7) $7\frac{1}{8}$	(7) $1\frac{1}{2}$	(6) $2\frac{5}{6}$
(8) $\frac{3}{5}$	(8) $1\frac{1}{24}$	(8) $3\frac{1}{2}$	(8) $1\frac{1}{6}$	(7) $1\frac{5}{14}$
(9) $3\frac{4}{7}$	(9) 1	(9) $2\frac{2}{3}$	(9) $1\frac{1}{4}$	(8) $\frac{1}{2}$

F81–90 (3–5 min)

81	82	83	84	85
(1) 18	(1) $\boxed{\frac{3}{7}}$	(1) 4	(1) 9	(1) $\frac{1}{20}$
(2) 10	(2) $\frac{3}{7}$	(2) $\frac{4}{15}$	(2) $\frac{6}{7}$	(2) $3\frac{1}{12}$
(3) 1	(3) $\frac{5}{6}$	(3) $\frac{1}{2}$	(3) $\frac{1}{12}$	(3) $\frac{13}{30}$
(4) 34				
(5) 40	(4) $\frac{2}{3}$	(4) $1\frac{5}{7}$	(4) $1\frac{1}{3}$	(4) $\frac{13}{24}$
(6) 2	(5) $1\frac{2}{5}$	(5) $1\frac{2}{3}$	(5) 2	(5) $\frac{1}{6}$
(7) 28	(6) $1\frac{1}{4}$			
(8) 8				

81	82	83	84	85
(9) $\frac{5}{6}$	(7) 8	(6) $3\frac{1}{5}$	(6) $\frac{1}{3}$	(6) $\frac{1}{2}$
(10) $\frac{5}{24}$	(8) 18	(7) $\frac{1}{9}$	(7) $\frac{13}{30}$	(7) $\frac{1}{5}$
(11) $\frac{7}{24}$	(9) 21			
(12) $\frac{1}{2}$	(10) 10	(8) 9	(8) $\frac{1}{2}$	(8) 54
(13) 8	(11) 12	(9) $\frac{19}{30}$	(9) $\frac{10}{27}$	(9) $\frac{1}{40}$
(14) $\frac{3}{4}$	(12) 15			

86	87	88	89	90
(1) $\frac{1}{12}$	(1) $2\frac{2}{3}$	(1) $2\frac{1}{8}$	(1) $4\frac{13}{15}$	(1) 1
(2) $\frac{3}{8}$	(2) $\frac{5}{18}$	(2) $\frac{5}{9}$	(2) $2\frac{11}{14}$	(2) $2\frac{9}{10}$
(3) $\frac{3}{4}$	(3) $4\frac{3}{4}$	(3) $1\frac{11}{36}$	(3) $3\frac{1}{8}$	(3) 3
(4) $\frac{7}{36}$	(4) $\frac{1}{10}$	(4) $\frac{11}{40}$	(4) 1	(4) $\frac{1}{2}$

86	87	88	89	90
(5) $1\frac{3}{5}$	(5) $3\frac{1}{9}$	(5) $\frac{11}{48}$	(5) $\frac{4}{15}$	(5) $1\frac{1}{30}$
(6) $3\frac{3}{4}$	(6) $8\frac{1}{6}$	(6) $\frac{2}{3}$	(6) $1\frac{4}{5}$	(6) $1\frac{5}{7}$
(7) $1\frac{2}{5}$	(7) $\frac{5}{14}$	(7) $\frac{1}{5}$	(7) $\frac{2}{11}$	(7) $1\frac{1}{7}$
(8) $3\frac{1}{8}$	(8) $2\frac{2}{3}$	(8) 54		

F91–100 (4–6 min)

91	92	93	94	95
(1) $\frac{2}{5}$	(1) $\frac{4}{7}$	(1) $\frac{7}{30}$	(1) $\frac{5}{8}$	(1) $1\frac{1}{3}$
(2) $\frac{3}{7}$	(2) $\frac{1}{7}$	(2) $\frac{1}{6}$	(2) $2\frac{4}{5}$	(2) $13\frac{1}{5}$
(3) $\frac{1}{9}$	(3) $1\frac{1}{9}$	(3) $\frac{1}{2}$	(3) $\frac{6}{7}$	
(4) $\frac{13}{24}$	(4) $\frac{3}{5}$	(4) $\frac{2}{3}$	(4) $1\frac{11}{40}$	(3) $\frac{1}{21}$
(5) $\frac{4}{9}$	(5) $3\frac{3}{8}$	(5) $\frac{9}{14}$	(5) $\frac{2}{7}$	(4) $\frac{2}{7}$

91	92	93	94	95
(6) $2\frac{2}{9}$	(6) $\frac{23}{36}$	(6) $1\frac{15}{16}$	(6) $\frac{4}{5}$	(5) $1\frac{3}{8}$
(7) $\frac{1}{4}$	(7) $2\frac{7}{36}$	(7) $2\frac{13}{15}$	(7) $1\frac{5}{8}$	(6) $1\frac{1}{7}$
(8) $\frac{13}{24}$	(8) $1\frac{3}{5}$	(8) $\frac{1}{5}$	(8) $\frac{3}{7}$	(7) $\frac{7}{10}$
(9) $\frac{6}{11}$	(9) $1\frac{2}{5}$	(9) $2\frac{1}{2}$	(9) 3	(8) $\frac{4}{21}$

96	97	98	99	100
1. (1) 21 (2) 21 (3) 16 (4) 16	(1) 150 (2) 150 (3) 300 (4) 400	(1) $\frac{1}{3}$ (2) $\frac{7}{30}$	(1) $5\frac{5}{18}$ (2) $\frac{1}{40}$	(1) $\frac{1}{5}$ (2) $\frac{3}{10}$
(5) 27 (6) 27 (7) 1 (8) 1 2. 2, 4, 6, 8	(5) 90 (6) 30 (7) 20 (8) 5	(3) $\frac{2}{5}$ (4) 8	(3) 5 (4) 5	(3) $1\frac{1}{15}$ (4) $1\frac{1}{3}$

96	97	98	99	100
3. (1) $\frac{1}{7}$ (2) $\frac{1}{7}$ (3) $\frac{1}{3}$	(9) $\frac{3}{40}$ (10) $\frac{7}{24}$ (11) $8\frac{5}{6}$	(5) 2 (6) 2	(5) $1\frac{7}{36}$ (6) $1\frac{7}{36}$	(5) 8 (6) $\frac{1}{3}$
(4) $\frac{3}{7}$ (5) $\frac{3}{7}$ (6) 6 4. 2, 5	(12) $\frac{2}{21}$ (13) $\frac{1}{3}$ (14) $\frac{7}{16}$	(7) $4\frac{1}{20}$ (8) $\frac{9}{20}$	(7) $\frac{1}{2}$ (8) $\frac{2}{7}$	(7) 30

F101–110 (4–6 min)

101	102	103	104	105
(1) $\frac{1}{2}$	(1) $\frac{3}{5}$	(1) $\frac{2}{3}$	(1) $\frac{1}{7}$	(1) $\frac{1}{25}$
(2) $\frac{2}{15}$	(2) $1\frac{3}{10}$	(2) $2\frac{1}{4}$	(2) $\frac{4}{9}$	(2) $\frac{17}{21}$
(3) $\frac{1}{2}$	(3) $\frac{1}{2}$	(3) $1\frac{1}{9}$	(3) $1\frac{1}{2}$	(3) $1\frac{7}{16}$
(4) $1\frac{1}{12}$	(4) $\frac{1}{15}$	(4) $\frac{4}{5}$	(4) $\frac{5}{7}$	(4) $\frac{1}{2}$

101	102	103	104	105
(5) $\frac{1}{5}$	(5) $3\frac{2}{9}$	(5) $1\frac{1}{24}$	(5) $\frac{4}{9}$	(5) $\frac{21}{40}$
(6) $\frac{1}{3}$	(6) $\frac{7}{20}$	(6) $\frac{17}{18}$	(6) $\frac{1}{2}$	(6) 2
(7) $\frac{1}{14}$	(7) $1\frac{1}{10}$	(7) $7\frac{1}{42}$	(7) $3\frac{1}{2}$	(7) $3\frac{2}{7}$

106	107	108	109	110
(1) $\frac{8}{21}$	(1) $1\frac{2}{5}$	(1) $\frac{3}{10}$	(1) $\frac{7}{18}$	(1) 1
(2) $1\frac{1}{2}$	(2) $3\frac{1}{6}$	(2) $\frac{5}{8}$	(2) $1\frac{17}{24}$	(2) $\frac{1}{12}$
(3) $\frac{5}{6}$	(3) $\frac{23}{27}$	(3) $5\frac{1}{3}$	(3) $\frac{8}{15}$	(3) $1\frac{3}{5}$
(4) $1\frac{1}{6}$	(4) $\frac{5}{14}$	(4) $\frac{7}{10}$	(4) $\frac{1}{12}$	(4) $\frac{1}{2}$

106	107	108	109	110
(5) $\frac{4}{5}$	(5) $1\frac{14}{15}$	(5) 2	(5) $3\frac{19}{24}$	(5) $1\frac{1}{2}$
(6) $\frac{1}{8}$	(6) $\frac{1}{2}$	(6) $\frac{1}{5}$	(6) $1\frac{1}{10}$	(6) $\frac{1}{5}$
(7) $\frac{5}{48}$	(7) $1\frac{1}{4}$	(7) $1\frac{1}{2}$	(7) $1\frac{5}{8}$	(7) 1

F111–120 (4–6 min)

111	112	113	114	115
(1) $\frac{3}{5}$	(1) $1\frac{3}{7}$	(1) $1\frac{5}{8}$	(1) $\frac{1}{8}$	(1) $3\frac{1}{8}$
(2) 4	(2) $1\frac{4}{7}$	(2) $\frac{17}{50}$	(2) $4\frac{2}{5}$	(2) $2\frac{1}{8}$
(3) $\frac{5}{8}$	(3) $\frac{9}{10}$	(3) $5\frac{1}{2}$	(3) $1\frac{1}{10}$	(3) $1\frac{1}{6}$
(4) 1	(4) $\frac{7}{8}$	(4) $\frac{23}{30}$	(4) 3	(4) $1\frac{2}{3}$

111	112	113	114	115
(5) $\frac{5}{6}$	(5) $1\frac{1}{12}$	(5) 3	(5) $\frac{1}{8}$	(5) $\frac{9}{40}$
(6) $1\frac{1}{30}$	(6) $\frac{1}{4}$	(6) $2\frac{2}{3}$	(6) $\frac{1}{12}$	(6) $\frac{1}{4}$
(7) 36	(7) 3	(7) $\frac{2}{3}$	(7) $1\frac{6}{7}$	(7) $4\frac{5}{24}$
(8) $\frac{3}{5}$	(8) $3\frac{4}{5}$	(8) $\frac{1}{8}$	(8) $\frac{11}{30}$	(8) $2\frac{3}{4}$

116	117	118	119	120
(1) $\frac{2}{5}$	(1) $3\frac{7}{20}$	(1) $\frac{13}{15}$	(1) $5\frac{2}{5}$	(1) $\frac{5}{8}$
(2) $\frac{10}{27}$	(2) $2\frac{1}{4}$	(2) $\frac{13}{60}$	(2) $5\frac{2}{5}$	(2) $2\frac{7}{10}$
(3) $1\frac{19}{30}$	(3) 0	(3) $\frac{2}{3}$	(3) $\frac{1}{2}$	(3) $1\frac{1}{24}$
(4) $\frac{1}{20}$	(4) $\frac{1}{40}$	(4) $\frac{4}{5}$	(4) 5	(4) 18

116	117	118	119	120
(5) $2\frac{7}{24}$	(5) $\frac{7}{30}$	(5) $\frac{1}{4}$	(5) $1\frac{9}{22}$	(5) $1\frac{4}{9}$
(6) $\frac{3}{8}$	(6) $1\frac{1}{4}$	(6) $\frac{3}{10}$	(6) $1\frac{1}{2}$	(6) 11
(7) $\frac{7}{15}$	(7) $6\frac{1}{6}$	(7) $1\frac{1}{5}$	(7) $\frac{7}{20}$	(7) $5\frac{1}{2}$
(8) $\frac{1}{20}$	(8) $4\frac{5}{6}$	(8) $\frac{5}{18}$	(8) $\frac{1}{6}$	(8) 1

F121–130 (4–6 min)

121	122	123	124	125
(1) $2\frac{1}{2}$	(1) $2\frac{1}{2}$	(1) $1\frac{3}{5}$	(1) 4	(1) $6\frac{1}{4}$
(2) $1\frac{1}{5}$	(2) $\frac{2}{35}$	(2) $5\frac{1}{3}$	(2) $3\frac{1}{3}$	(2) $2\frac{5}{6}$
(3) $1\frac{2}{5}$	(3) $3\frac{1}{3}$	(3) $1\frac{19}{24}$	(3) $1\frac{2}{5}$	(3) $1\frac{4}{15}$
(4) $\frac{1}{20}$	(4) $2\frac{5}{8}$	(4) $3\frac{1}{6}$	(4) $1\frac{2}{5}$	(4) $5\frac{7}{10}$

121	122	123	124	125
(5) 5	(5) $\frac{5}{6}$	(5) $1\frac{5}{12}$	(5) $\frac{13}{40}$	(5) $10\frac{1}{2}$
(6) 11	(6) $1\frac{2}{3}$	(6) $\frac{37}{70}$	(6) $1\frac{1}{2}$	(6) $2\frac{1}{4}$
(7) $\frac{1}{6}$	(7) $\frac{11}{60}$	(7) $1\frac{13}{14}$	(7) $\frac{2}{5}$	
(8) $\frac{1}{2}$				

126	127	128	129	130
(1) $1\frac{1}{8}$	(1) $\frac{19}{30}$	(1) 1	(1) $1\frac{7}{8}$	(1) $\frac{7}{9}$
(2) $4\frac{5}{24}$	(2) $12\frac{1}{8}$	(2) $1\frac{1}{50}$	(2) $\frac{18}{25}$	(2) $4\frac{1}{3}$
(3) $4\frac{4}{5}$	(3) $2\frac{4}{9}$	(3) 1	(3) $3\frac{5}{12}$	

126	127	128	129	130
(4) $4\frac{2}{5}$	(4) $\frac{9}{10}$	(4) $2\frac{5}{12}$	(4) $5\frac{6}{7}$	(3) $2\frac{2}{5}$
(5) $\frac{3}{5}$	(5) $1\frac{1}{6}$	(5) $5\frac{11}{20}$	(5) $5\frac{1}{2}$	(4) $1\frac{1}{2}$

F131–140 (3–5 min)

＊134b 2.(4) Problem with a decimal which should be changed into irreducible fraction

131	132	133	134	135
1.		1.	1.	1.
(1) $\frac{7}{10}$	(1) $\frac{2}{5}$	(1) $2\frac{7}{10}$	(1) $\frac{4}{5}$	(1) $1\frac{1}{2}$
(2) $\frac{9}{10}$	(2) $\frac{7}{50}$	(2) $3\frac{9}{10}$	(2) $2\frac{3}{5}$	(2) $3\frac{2}{5}$
(3) $\frac{27}{100}$	(3) $\frac{9}{50}$	(3) $6\frac{1}{10}$	(3) $4\frac{1}{5}$	(3) $4\frac{1}{4}$
(4) $\frac{3}{100}$	(4) $\frac{6}{25}$	(4) $10\frac{3}{10}$	(4) $5\frac{1}{4}$	(4) $6\frac{9}{25}$
2.		(5) $4\frac{11}{100}$	(5) $7\frac{12}{25}$	(5) $8\frac{9}{20}$
(1) $\frac{1}{5}$	(5) $\frac{8}{25}$	(6) $5\frac{7}{100}$	(6) $9\frac{3}{4}$	(6) $13\frac{3}{4}$
(2) $\frac{1}{2}$	(6) $\frac{16}{25}$	(7) $7\frac{77}{100}$	(7) $12\frac{1}{8}$	(7) $6\frac{3}{8}$
(3) $\frac{3}{5}$	(7) $\frac{8}{125}$	(8) $12\frac{13}{100}$		
(4) $\frac{4}{5}$				

131	132	133	134	135
(5) $\frac{1}{2}$	(8) $\frac{1}{20}$	2.	2.	2.
(6) $\frac{3}{20}$	(9) $\frac{4}{25}$	(1) $1\frac{2}{5}$	(1) $\frac{2}{5}$	(1) $\frac{27}{70}$
(7) $\frac{7}{20}$	(10) $\frac{1}{4}$	(2) $2\frac{1}{2}$	(2) $4\frac{3}{10}$	(2) $\frac{3}{14}$
(8) $\frac{9}{20}$	(11) $\frac{9}{25}$	(3) $3\frac{3}{25}$	(3) $\frac{1}{5}$	(3) $1\frac{1}{4}$
(9) $\frac{3}{4}$	(12) $\frac{14}{25}$	(4) $4\frac{1}{4}$	(4)＊ $4\frac{4}{5}$	(4) $\frac{2}{45}$
(10) $\frac{3}{200}$	(13) $\frac{3}{40}$	(5) $5\frac{4}{25}$	(5) $2\frac{1}{4}$	(5) $\frac{2}{5}$
(11) $\frac{1}{40}$	(14) $\frac{21}{250}$	(6) $7\frac{9}{20}$	(6) $1\frac{3}{5}$	(6) $\frac{1}{3}$
(12) $\frac{1}{8}$	(15) $\frac{1}{8}$	(7) $8\frac{3}{4}$	(7) $4\frac{1}{15}$	(7) $\frac{1}{3}$
		(8) $9\frac{1}{8}$	(8) $2\frac{1}{20}$	(8) $\frac{1}{2}$

136	137	138	139	140
(1) $2\frac{1}{5}$	(1) $\frac{1}{2}$	(1) $6\frac{18}{35}$	(1) $18\frac{13}{15}$	(1) $1\frac{43}{60}$
(2) $6\frac{23}{30}$	(2) $\frac{2}{3}$	(2) $7\frac{1}{10}$	(2) $2\frac{19}{55}$	(2) $2\frac{19}{80}$
(3) $3\frac{5}{6}$	(3) 30	(3) $3\frac{1}{12}$	(3) $3\frac{11}{30}$	(3) $\frac{21}{25}$
(4) $2\frac{13}{14}$	(4) $\frac{9}{25}$	(4) $\frac{1}{8}$	(4) 9	(4) $\frac{2}{5}$
(5) $2\frac{7}{30}$	(5) 3			

136	137	138	139	140
(6) $1\frac{1}{5}$	(6) 6	(5) 3	(5) $\frac{3}{20}$	(5) $4\frac{1}{2}$
(7) $3\frac{13}{30}$	(7) $3\frac{1}{3}$	(6) $\frac{3}{5}$	(6) $1\frac{1}{2}$	(6) 2
(8) $3\frac{2}{15}$	(8) $\frac{4}{5}$	(7) $\frac{4}{5}$	(7) $\frac{4}{21}$	(7) $1\frac{1}{8}$
(9) $\frac{3}{8}$	(9) $8\frac{1}{3}$	(8) $\frac{1}{2}$	(8) $\frac{4}{5}$	(8) 10
(10) $1\frac{1}{100}$	(10) $11\frac{1}{10}$			

F141–150 (4–6 min)

141	142	143	144	145
(1) $\frac{2}{3}$	(1) $1\frac{7}{8}$	(1) $\frac{5}{12}$	(1) $\frac{27}{100}$	(1) $\frac{1}{4}$
(2) $\frac{12}{25}$	(2) 8	(2) $\frac{1}{5}$	(2) $6\frac{2}{5}$	(2) $\frac{5}{21}$
(3) $\frac{18}{25}$	(3) $6\frac{1}{4}$	(3) 7	(3) $\frac{3}{16}$	(3) $1\frac{4}{7}$
(4) $2\frac{1}{2}$	(4) $\frac{1}{5}$	(4) $\frac{1}{2}$	(4) 3	(4) $\frac{11}{70}$

141	142	143	144	145
(5) $\frac{4}{9}$	(5) 27	(5) 1	(5) $1\frac{1}{3}$	(5) 1
(6) $1\frac{1}{4}$	(6) $1\frac{11}{25}$	(6) $2\frac{8}{21}$	(6) $\frac{2}{15}$	(6) $\frac{2}{5}$
(7) $\frac{1}{6}$	(7) 3	(7) $1\frac{7}{25}$	(7) $5\frac{1}{3}$	(7) $\frac{1}{25}$

146	147	148	149	150
(1) $1\frac{6}{19}$	(1) 2	(1) $\frac{4}{25}$	(1) $\frac{7}{24}$	(1) $1\frac{9}{10}$
(2) $\frac{7}{9}$	(2) $\frac{7}{10}$	(2) $\frac{2}{9}$	(2) 2	(2) $1\frac{7}{12}$
(3) $\frac{1}{3}$	(3) $\frac{3}{25}$	(3) $8\frac{1}{10}$	(3) $4\frac{14}{15}$	(3) 3

146	147	148	149	150
(4) $\frac{1}{2}$	(4) $\frac{3}{35}$	(4) $\frac{2}{5}$	(4) $\frac{3}{5}$	(4) 5
(5) $\frac{1}{50}$	(5) $1\frac{13}{22}$	(5) $\frac{3}{4}$	(5) 2	(5) $\frac{2}{3}$
(6) $\frac{1}{5}$	(6) $8\frac{1}{3}$	(6) $1\frac{1}{4}$	(6) $1\frac{2}{5}$	(6) 2

F151–160 (4–6 min)

151	152	153	154	155
(1) $\frac{3}{8}$	(1) $1\frac{1}{14}$	(1) $\frac{1}{5}$	(1) $1\frac{3}{4}$	(1) $\frac{5}{36}$
(2) $\frac{1}{6}$	(2) $2\frac{4}{7}$	(2) $4\frac{3}{5}$	(2) 0	(2) $\frac{1}{3}$
(3) $\frac{3}{32}$	(3) $\frac{3}{10}$	(3) $\frac{19}{30}$	(3) $1\frac{1}{2}$	(3) $1\frac{1}{9}$
151	152	153	154	155
(4) 1	(4) $\frac{1}{10}$	(4) $3\frac{9}{17}$	(4) $1\frac{1}{3}$	(4) $1\frac{1}{2}$
(5) $\frac{11}{12}$	(5) $\frac{5}{24}$	(5) $1\frac{1}{50}$	(5) $\frac{3}{25}$	(5) $2\frac{4}{9}$

156	157	158	159	160
(1) $1\frac{3}{7}$	(1) $5\frac{17}{60}$	(1) $2\frac{8}{15}$	(1) $\frac{5}{7}$	(1) $\frac{49}{60}$
(2) $2\frac{8}{9}$	(2) $8\frac{1}{10}$	(2) $\frac{5}{21}$	(2) $\frac{7}{20}$	(2) $1\frac{1}{6}$

156	157	158	159	160
(3) $2\frac{5}{48}$	(3) $3\frac{4}{5}$	(3) 3	(3) $\frac{3}{5}$	(3) $3\frac{1}{2}$
(4) $\frac{6}{7}$	(4) $5\frac{3}{10}$	(4) $2\frac{2}{3}$	(4) $\frac{2}{3}$	(4) $\frac{9}{10}$

F161–166 (4–6 min)

161

(1)

$\frac{3}{4} + \frac{2}{3} = 1\frac{5}{12}$

$1\frac{5}{12}$ kg

(2)

$\frac{3}{5} + \frac{1}{4} = \frac{17}{20}$

$\frac{17}{20}$ kg

162

(1)

$2\frac{1}{5} - \frac{9}{10} = 1\frac{3}{10}$

$1\frac{3}{10}$ kg

(2)

$4 - 1\frac{2}{3} = 2\frac{1}{3}$

$2\frac{1}{3}$ kg

163

(1)

$\frac{4}{5} \times 3 = 2\frac{2}{5}$

$2\frac{2}{5}$ kg

(2)

$1\frac{3}{5} \times 15 = 24$

24ℓ

161

(3)

$1\frac{1}{2} + 3\frac{5}{6} = 5\frac{1}{3}$

$5\frac{1}{3}$ km

(4)

$\frac{3}{4} + \frac{2}{3} + \frac{1}{2} = 1\frac{11}{12}$

$1\frac{11}{12}$ m

162

(3)

$2\frac{7}{9} - \frac{5}{6} = 1\frac{17}{18}$

$1\frac{17}{18}$ km

(4)

$2\frac{2}{3} - 1\frac{1}{2} - \frac{7}{10} = \frac{7}{15}$

$\frac{7}{15}$ m

163

(3)

$\frac{8}{9} \div 4 = \frac{2}{9}$

$\frac{2}{9}\ell$

(4)

$3\frac{3}{4} \div 5 = \frac{3}{4}$

$\frac{3}{4}$ kg

164

(1)

$300 \times \frac{3}{4} = 225$

225 ℓ

(2)

$12 \times \boxed{3\frac{3}{4}} = 45$

45 km

165

(1)

$\boxed{\frac{2}{3}} \times 120 = 80$

80 m

(2)

$\frac{2}{5} \times 180 = 72$

72 mℓ

166

(1)

① $\frac{2}{3} \times 600 = 400$

$\boxed{\frac{1}{4}} \times 600 = 150$

400 g, 150 g

② 400 + 150 = 550

550 g

164

(3)

$\frac{3}{4} \times 7 = 5\frac{1}{4}$

$5\frac{1}{4}$ km

(4)

$1\frac{1}{5} \times 10 = 12$

12 km

165

(3)

$\frac{1}{6} \times 720 = 120$

120 g

(4)

$\frac{2}{15} \times 600 = 80$

80 g

166

(2)

$\frac{3}{5} \times 900 = 540$

$\frac{1}{6} \times 900 = 150$

540 + 150 = 690

690 g

(3)

$\frac{2}{7} \times 280 = 80$

$\frac{1}{4} \times 280 = 70$

80 + 70 = 150

150 pages

F167–170 (4–6 min)

The intermediate steps may differ from what is indicated in the Answer Book. Mark as correct if the steps are correct.

167

(1)

① $\frac{3}{8} \times 4000 = 1500$

1500 m²

② 4000 − 1500 = 2500

2500 m²

167

(2)

$\frac{4}{9} \times 45 = 20$

45 − 20 = 25

25 passengers

(3)

$\frac{8}{21} \times 420 = 160$

420 − 160 = 260

260 m

168

(1)

① $\frac{1}{3} \times 750 = 250$

$\frac{2}{5} \times 750 = 300$

250 + 300 = 550

550 mℓ

② 750 − 550 = 200

200 mℓ

168

(2)

① $\frac{1}{3} \times 720 = 240$

$\frac{3}{8} \times 720 = 270$

$\frac{1}{12} \times 720 = 60$

240 sheets, 270 sheets, 60 sheets

② $720 - (240 + 270 + 60) = 150$

150 sheets

(3)

① $\frac{2}{9} \times 360 = 80$

$\frac{1}{4} \times 360 = 90$

$\frac{5}{18} \times 360 = 100$

80 + 90 + 100 = 270

270 pages

② 360 − 270 = 90

90 pages

169

(1)

① $\boxed{\frac{1}{2}}$

$\boxed{\frac{1}{2}} \times 420 = 210$

210 trees

② $420 - 210 = 210$

210 trees

③ $\boxed{\frac{4}{7}} \times \boxed{210} = 120$

120 trees

170

1.

(1)

① $\frac{5}{12} \times 1440 = 600$ 600 g

② The remaining honey after I received my portion is

$1440 - 600 = 840$

The amount of honey my brother received is

$\frac{3}{7} \times 840 = 360$

The amount of honey my sister received is

$840 - 360 = 480$ 480 g

169

(2)

① $\boxed{\frac{3}{5}}$

$\frac{3}{5} \times 4000 = 2400$

2400 m

② $4000 - \boxed{2400} = \boxed{1600}$

$\boxed{\frac{3}{4}}$

$\frac{3}{4} \times \boxed{1600} = 1200$ 1200 m

③ $\boxed{1600} - \boxed{1200} = 400$ 400 m

170

2.

(1) $\frac{9}{10}$

(2) $1\frac{1}{114}$

F171–177 (5–7 min)

171	172	173	174	175
(1) $\frac{3}{5}$	(1) $\frac{1}{2}$	(1) $x = \frac{4}{7}$	(1) $x = 2$	(1) $x = 180$
(2) $\frac{5}{8}$	(2) $\frac{1}{7}$	(2) $x = \frac{2}{3}$	(2) $x = \frac{3}{4}$	(2) $x = \frac{3}{14}$
(3) $\frac{5}{7}$	(3) $\frac{3}{5}$	(3) $x = \frac{1}{3}$	(3) $x = \frac{2}{3}$	(3) $x = 540$
(4) $4\frac{2}{9}$	(4) $\frac{1}{7}$	(4) $x = \frac{1}{12}$	(4) $x = \frac{2}{3}$	(4) $x = \frac{3}{4}$
(5) $\frac{1}{3}$	(5) $\frac{1}{3}$	(5) $x = \frac{1}{2}$	(5) $x = \frac{2}{3}$	(5) $x = 2400$
(6) $\frac{1}{4}$	(6) $\frac{3}{4}$	(6) $x = \frac{7}{9}$	(6) $x = \frac{1}{3}$	

171	172	173	174	175
(7) $\frac{5}{7}$	(7) $\frac{1}{2}$	(7) $x = \frac{5}{7}$	(7) $x = \frac{1}{6}$	(6) $x = 400$
(8) $\frac{3}{5}$	(8) $\frac{3}{7}$	(8) $x = \frac{3}{4}$	(8) $x = \frac{1}{3}$	(7) $x = 1600$
(9) $\frac{2}{3}$	(9) $\frac{4}{7}$	(9) $x = \frac{3}{5}$	(9) $x = \frac{2}{3}$	(8) $x = 12$
(10) 6	(10) $\frac{3}{5}$	(10) $x = 1\frac{1}{3}$	(10) $x = \frac{3}{4}$	(9) $x = 900$
(11) $\frac{1}{2}$	(11) $\frac{3}{7}$	(11) $x = \frac{2}{3}$	(11) $x = \frac{2}{3}$	(10) $x = 200$
(12) $\frac{11}{12}$	(12) $\frac{3}{4}$	(12) $x = 4$	(12) $x = \frac{4}{5}$	

176

(1)

$\frac{2}{3} \times x = 40$

$x = 60$

60 pages

(2)

If the total distance is x metres,

$\frac{7}{10} \times x = 280$

$x = 400$

400 m

177

(1)

$1 - \frac{2}{5} = \frac{3}{5}$

$\frac{3}{5} \times x = 180$

$x = 300$

300 g

176

(3)

① If the total number of pencils is x pencils,

$\frac{2}{5} \times x = 18$

$x = 45$

45 pencils

② 45

45 − 18 = 27

27 pencils

177

(2)

$1 - \frac{2}{9} = \frac{7}{9}$

$\frac{7}{9} \times x = 560$

$x = 720$

720 g

(3)

$1 - \frac{2}{5} = \frac{3}{5}$

$\frac{3}{5} \times x = 24$

$x = 40$

40 m²

F178–180 (5–7 min)

The intermediate steps may differ from what is indicated in the Answer Book. Mark as correct if the steps are correct.

178

(1)

$$1 - \frac{8}{15} = \boxed{\frac{7}{15}}$$

$$\frac{7}{15} \times x = 140$$

$$x = 300$$

300 $m\ell$

179

(1)

① $\frac{2}{3} \times \left(1 - \frac{3}{8}\right) = \frac{5}{12}$

$$1 - \frac{3}{8} - \boxed{\frac{5}{12}} = \frac{5}{24}$$

$\frac{5}{24}$

② $\boxed{\frac{5}{24}} \times x = 100$

$$x = \boxed{480}$$

480 $m\ell$

178

(2)

$$1 - \frac{3}{7} = \frac{4}{7}$$

$$\frac{4}{7} \times x = 280$$

$$x = 490$$

490 g

(3)

$$1 - \frac{2}{5} = \frac{3}{5}$$

$$\frac{3}{5} \times x = 120$$

$$x = 200$$

200 g

179

(2) Yesterday : $\frac{2}{5}$

The remaining cheese from yesterday : $1 - \frac{2}{5}$

Today : $\frac{2}{5} \times \left(1 - \frac{2}{5}\right) = \frac{6}{25}$

The remaining cheese from today : $1 - \frac{2}{5} - \frac{6}{25} = \frac{9}{25}$

If the total amount of cheese is x grams,

$$\frac{9}{25} \times x = 900$$

$$x = 2500$$

2500 g

180

1.

(1) $x = \frac{1}{6}$

(2) $x = \frac{4}{5}$

(3) $x = \frac{5}{12}$

(4) $x = 1\frac{7}{8}$

(5) $x = \frac{3}{10}$

180

2.

(1)* $\frac{5}{3} \times \frac{2}{11} + \frac{19}{12} \div \left(2\frac{1}{4} - \square\right) = 1\frac{1}{6}$

$\frac{10}{33} + \frac{19}{12} \div \left(2\frac{1}{4} - \square\right) = 1\frac{1}{6}$

$\frac{20}{66} + \frac{19}{12} \div \left(2\frac{1}{4} - \square\right) = 1\frac{11}{66}$

$\frac{19}{12} \div \left(2\frac{1}{4} - \square\right) = \frac{19}{22}$

$2\frac{1}{4} - \square = \frac{19}{12} \times \frac{22}{19}$

$2\frac{1}{4} - \square = 1\frac{5}{6}$

$\square = \frac{5}{12}$

$\frac{5}{12}$

(2)* $\left(\frac{1999}{24} + \square\right) \times \frac{8}{5} - \frac{38}{11} \times \frac{11}{3} = 127$

$\left(\frac{1999}{24} + \square\right) \times \frac{8}{5} - 12\frac{2}{3} = 127$

$\left(\frac{1999}{24} + \square\right) \times \frac{8}{5} = 139\frac{2}{3}$

$\frac{1999}{24} + \square = \frac{419}{3} \times \frac{5}{8}$

$\frac{1999}{24} + \square = \frac{2095}{24}$

$\square = 4$

4

F181–190 (3–5 min)

(For F181b(15), '54' can also be expressed as '54.Ø'.
The same may be applied to similar problems.)

181	182	183	184	185
(1) 0.9	(1) 5.85	(1) 0.8	(1) 1.18	(1) 19
(2) 0.7	(2) 23.1	(2) 0.3	(2) 19.7	(2) 70.07
(3) 2.9	(3) 8.07	(3) 2.2	(3) 1.93	(3) 19.03
(4) 5.8	(4) 3.8	(4) 3.3	(4) 2.98	(4) 10
(5) 1.1	(5) 16.07	(5) 0.9	(5) 0.03	(5) 18.37
(6) 1.2	(6) 13.14	(6) 1.8	(6) 0.93	(6) 1.004
(7) 1.4	(7) 3.9	(7) 2.2	(7) 99.8	(7) 254.129
(8) 3.2	(8) 5.4	(8) 3.7	(8) 99.7	
(9) 5.1		(9) 3.5		
(10) 8.5		(10) 6.4		

181	182	183	184	185
(11) 5.72	(9) 16.86	(11) 2.21	(9) 12.92	(8) 7.2
(12) 4.06	(10) 27.28	(12) 3.24	(10) 11.74	(9) 16.04
(13) 72.4	(11) 7.641	(13) 47.3	(11) 3.22	(10) 1.967
(14) 15.1	(12) 17.864	(14) 78.1	(12) 37.17	(11) 19.85
(15) 54 (or 54.Ø)	(13) 15.797	(15) 2.56	(13) 1.356	(12) 28.234
(16) 81 (or 81.Ø)	(14) 28.1	(16) 1.92	(14) 1.137	(13) 0.9
(17) 6.07	(15) 40.129	(17) 11.3	(15) 2.58	(14) 499.1
(18) 22.5		(18) 9.8		

186	187	188	189	190
(1) 0.6	(1) 92.4	(1) 253.7	(1) 1.081	(1) 59.22
(2) 0.8	(2) 9.24	(2) 91.2	(2) 2.185	(2) 33.615
(3) 3.5				
(4) 7.2	(3) 0.924		(3) 0.888	(3) 17.612
(5) 4.8	(4) 382.2	(3) 25.37	(4) 0.1431	(4) 22.4
(6) 12.3	(5) 38.22	(4) 9.12	(5) 0.2028	(5) 2450
(7) 5.2				
(8) 7.5	(6) 3.822		(6) 0.2052	(6) 98.81

186	187	188	189	190
(9) 43.4	(7) 0.495	(5) 51.15	(7) 0.1024	(7) 1.257
(10) 41.4	(8) 0.108	(6) 428.8	(8) 0.2024	(8) 393.4
	(9) 1.585			(9) 0.684
(11) 37.5	(10) 1.46	(7) 243.6	(9) 0.1971	
(12) 121.5	(11) 0.0495	(8) 27.83	(10) 0.0063	(10) 0.576
	(12) 0.0108			(11) 4.982
(13) 9.72	(13) 0.1585	(9) 179.92	(11) 416	(12) 3.922
(14) 16.64	(14) 0.146	(10) 35.518	(12) 0.5	(13) 6.8425

F191–200 (3–5 min)

191	192	193	194	195
(1) 0.3	(1) 12.5	(1) 2.4	(1) 21.4	(1) 0.6
(2) 0.3	(2) 12.6	(2) 3.5	(2) 21.3	(2) 0.8
(3) 0.5	(3) 3.5		(3) 215	(3) 0.25
(4) 0.9				
(5) 1.2	(4) 1.25	(3) 0.86	(4) 115	(4) 0.75
(6) 2.4	(5) 1.625	(4) 0.85	(5) 25	(5) 0.125
(7) 1.8				
(8) 1.3	(6) 5.125		(6) 40.5	(6) 0.375

191	192	193	194	195
(9) 1.23	(7) 1.15	(5) 1.25	(7) 4.1	(7) 0.2
(10) 1.81	(8) 4.075	(6) 2.12	(8) 2.3	(8) 0.3
(11) 11.4	(9) 9.36		(9) 31	(9) 0.08
				(10) 0.16
(12) 0.92	(10) 1.375	(7) 1.225	(10) 32	(11) 1.4
(13) 0.56	(11) 7.875	(8) 0.404	(11) 120	(12) 1.25
				(13) 2.125
(14) 0.09	(12) 12.225		(12) 1400	(14) 3.3

196	197	198	199	200
(1) 0.43	(1) 4.86	(1) 78	(1) 11.6	(1) 16.54
(2) 4.3	(2) 0.486	(2) 780	(2) 13.65	(2) 6.79
(3) 43	(3) 0.0486	(3) 0.78	(3) 6.02	(3) 28.775
(4) 430	(4) 0.00486	(4) 0.078	(4) 1.92	(4) 5.766
(5) 1.23	(5) 0.486	(5) 23.5	(5) 5.2	(5) 46
(6) 12.3	(6) 0.0486	(6) 235	(6) 4	(6) 0.254
(7) 123	(7) 0.00486	(7) 2350	(7) 0.136	(7) 0.2826
(8) 1230	(8) 0.000486	(8) 0.235	(8) 0.462	(8) 2.634
		(9) 0.0235		
		(10) 0.00235		

196	197	198	199	200
(9) 32.8	(9) 0.265	(11) 3.6	(9) 2.4	(9) 2.17
(10) 328	(10) 0.0265	(12) 12	(10) 0.52	(10) 0.7
(11) 3280	(11) 0.00265	(13) 36	(11) 1.632	(11) 0.1
(12) 3.28	(12) 2.65	(14) 0.84	(12) 0.082	(12) 1.4
(13) 32.8	(13) 0.265	(15) 4.2	(13) 0.075	(13) 0.004
(14) 328	(14) 0.0265	(16) 42	(14) 0.2	(14) 0.061
(15) 0.328	(15) 26.5	(17) 84	(15) 8	
(16) 3.28	(16) 2.65	(18) 1.2	(16) 0.72	
(17) 32.8	(17) 0.265	(19) 0.12		
(18) 328	(18) 0.0265	(20) 0.012		